Recombinant Human IL-9 Protein

Catalog No.: RP01686

Sequence Information

Species
Human

Gene ID
3578

Swiss Prot
P15248

Tags
C-6His

Synonyms
P40; HP40; IL-9; IL9

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
14.96 kDa

Observed MW
Approximately 35 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Interleukin 9, also known as IL-9, is a cytokine (cell signaling molecule) belonging to the group of interleukins. IL-9 is a cytokine that acts as a regulator of a variety of hematopoietic cells. This cytokine stimulates cell proliferation and prevents apoptosis. It functions through the interleukin 9 receptor (IL-9R), which activates different signal transducer and activator (STAT) proteins and thus connects this cytokine to various biological processes.

Basic Information

Description
Recombinant Human IL-9 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln19-Ile144) of human IL9 (Accession #NP_000581.1) fused with and a 6×His tag at the C-terminus.

Activity
Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells. Avanzi, G. et al. (1988) Br. J. Haematol. 69:359. The ED_{50} for this effect is 0.48-1.91 ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

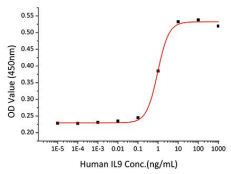
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

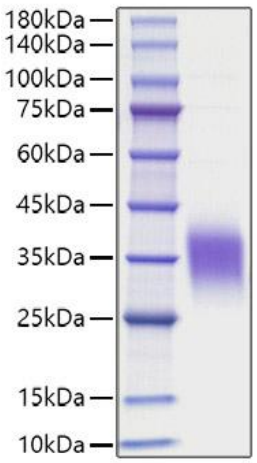
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Validation Data



Recombinant Human IL-9 stimulates cell proliferation of the MO7e human megakaryocytic leukemic cells. The ED_{50} for this effect is 0.48-1.91 ng/mL.



Recombinant Human IL-9 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.